

Abstract

A polarization dependent device suitable for effecting at least one polarization of a broadband portion of electromagnetic radiation incident upon the device is disclosed. This device includes a substrate, and a plurality of regions of differing refractive indices positioned in an alternating manner and substantially adjacent to the substrate to effect the at least one polarization impinging on the regions. The plurality of regions are oriented with respect to the at least one polarization of the broadband portion of the electromagnetic radiation so as to effect the at least one polarization of the broadband portion of the electromagnetic radiation impinging on the regions.